

PATENT ABSTRACTS OF JAPAN

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(71)Applicant : YOKOYAMA KOSUKE

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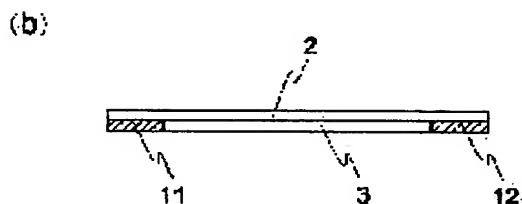
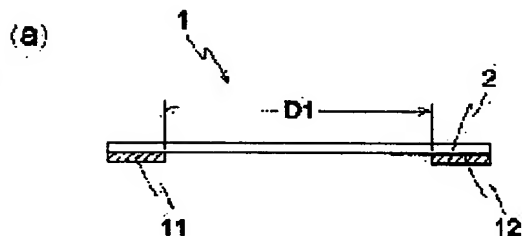
(72)Inventor : YOKOYAMA KOSUKE

(54) TAPE FOR ORGANISM

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a tape for an organism for applying physical force to the tendon of the body which has been deviated from the normal position, thereby returning its position to the normal position, which is effective for the stiffness of the shoulders, the headache, menstrual pain, arthralgia, and muscular pain.

SOLUTION: This tape is provided with a first adhesive layer in the vicinity of one end of a base material, and a second adhesive layer in the vicinity of the other end of the base material, and is characterized in that the base material has at least expandability in the direction of connecting the first adhesive layer and the second adhesive layer, and the first adhesive layer and the second adhesive layer are separated from each other at a designated distance.



LEGAL STATUS

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[Date of extinction of right]

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CLAIMS

[Claim(s)]

[Claim 1] It is the tape for living bodies on which the 1st adhesives layer was prepared near the end part of a base material, and the 2nd adhesives layer was prepared near the other end part of a base material. said base material -- at least -- this -- the tape for living bodies on which it has elasticity in the direction which connects the 1st adhesives layer and the 2nd adhesives layer, and comes to estrange only a distance predetermined in between said 1st adhesives layer and the 2nd adhesives layer.

[Claim 2] The tape for living bodies according to claim 1 on which said base material comes to have a band-like configuration.

[Claim 3] The tape for living bodies according to claim 1 or 2 which comes to cover said 1st adhesives layer and the 2nd adhesives layer with an exfoliation sheet.

[Claim 4] The tape for living bodies according to claim 1, 2, or 3 on which it comes to prepare a reinforcement layer between said 1st adhesives layer and the 2nd adhesives layer.

[Claim 5] two extensions prepare in said reinforcement layer -- having -- **** -- this -- two extensions cover with an exfoliation sheet through the 3rd and 4th adhesives layers, respectively -- having -- **** -- a predetermined distance between said 1st adhesives layer and the 2nd adhesives layer -- this -- the tape for living bodies according to claim 4 on which the distance between two extensions differs.

[Translation done.]

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the tape for living bodies. It is related with the tape for living bodies which consists of a base material with which two adhesives layers which estranged only a predetermined distance were prepared in more detail.

[0002]

[Description of the Prior Art] The binder with which the circulation accelerator was mixed in one field of the base material equipped with elasticity for the therapy of stiffness in shoulder and muscular pain is applied, and the plaster with which two or more magnets and/or the particle of a ceramic were arranged at random on this binder is known conventionally.

[0003] In this case, depending on the drug effect of the circulation accelerator mixed in the binder, and the effectiveness of the line of magnetic force produced to a magnet, deviation of a tendon cannot be corrected physically.

[0004] Moreover, the tape for taping used for the protection at the time of the functional disorder by the sport or physical labor is also known conventionally.

[0005] although in the case of the tape for taping actuation of the joint section or muscles be regulate , and the time of functional assistance of a joint or muscles or the functional disorder of a joint or muscles be protect according to the bolting force produce by twist this tape around an arm or a foot and it do so the physical operation effectiveness of the bolting force , pull strength required to correct the location gap from the location where a tendon be normal be obtain .

[0006] this invention person traced that the stiffness of the shoulders, a headache, menstrual pain, the arthralgia, and muscular pain originated in the location gap of the tendon of the muscles of the body from the therapy experience as a bonesetter over many years.

[0007] Then, this invention returns a location gap of the tendon of this body to a normal location by applying the physical force, and aims at offering the tape for living bodies effective the stiffness of the shoulders, a headache, menstrual pain, the arthralgia, and in order to carry out muscular pain.

[0008]

[Means for Solving the Problem] As for the tape for living bodies of this invention, the 1st adhesives layer is prepared near the end part of a base material. It is the tape for living bodies on which the 2nd adhesives layer was prepared near the other end part of a base material. said base material -- at least -- this -- it has elasticity in the direction which connects the 1st adhesives layer and the 2nd adhesives layer, and between said 1st adhesives layer and the 2nd adhesives layer is characterized by coming to estrange only a predetermined distance.

[0009] Moreover, it is desirable that said base material comes to have a band-like configuration.

[0010] Moreover, it is desirable to come to cover said 1st adhesives layer and the 2nd adhesives layer with an exfoliation sheet before an activity.

[0011] A patient's individual difference needs to adjust the die length between two adhesives layers. for this reason, a reinforcement layer is prepared between the adhesives layers of said base material, and two extensions prepare in this reinforcement layer further -- having -- **** -- this -- two extensions cover with an exfoliation sheet through the 3rd and 4th adhesives

layers, respectively -- having -- **** -- a predetermined distance between said 1st adhesives layer and the 2nd adhesives layer -- this -- it is desirable practically that the distance between two extensions differs.

[0012]

[Embodiment of the Invention] The tape for living bodies of this invention is explained to a detail, referring to an accompanying drawing.

[0013] The cross-section explanatory view showing an example of the tape for living bodies in connection with the gestalt of 1 operation of this invention in drawing 1, the flat-surface explanatory view of the tape for living bodies in connection with the gestalt of 1 operation of this invention in drawing 2, the cross-section explanatory view in which drawing 3 shows an example of the tape for living bodies of the gestalt of other operations of this invention, and drawing 4 are the explanatory views showing the condition of having stuck the tape for living bodies of this invention on the body.

[0014] Reference of (a) of gestalt 1 drawing 1 of operation constitutes the tape 1 for living bodies of the gestalt of this operation from a base material 2, and the 1st adhesives layer 11 and the 2nd adhesives layer 12 prepared in the ends of a base material 2. In addition, the ends side of a base material 2 and the end face of the 1st and 2nd adhesives layers 11 and 12 can also be made flat-tapped, and the end face of the 1st and 2nd adhesives layers 11 and 12 can shift them from the ends side of a base material 2 a little to the direction of the center of a base material 2.

[0015] In the case of the tape 1 for living bodies of the gestalt of this operation, the base material 2 has elasticity in the direction which connects the 1st adhesives layer 11 and the 2nd adhesives layer 12, i.e., the illustrated example, in the longitudinal direction of the tape 1 for living bodies.

[0016] Although high elasticity spandex (trade name) besides the textile fabrics which consist of nylon, polyester, acetate, flannel, cotton, silk, etc., for example, or a nonwoven fabric etc. may be adopted as an ingredient of the base material 2 of the tape 1 for living bodies, anythings may be adopted, if it is not limited to a specific thing and the suitable flexible force is produced.

[0017] Moreover, in the case of the tape 1 for living bodies of the gestalt of this operation, the base material 2 has the band-like configuration (refer to (a) of drawing 2). In addition, the magnitude of a base material 2 is suitably chosen by the adhesion face-to-face distance D1. Moreover, a configuration can choose what was adjusted according to bond strength, an adhesion face-to-face distance, and the flexible force so that it might agree in activity eye.

[0018] as the configuration of the base material 2 of the tape 1 for living bodies -- in addition -- for example, the rectangle-like configuration and the semicircle-like configuration were combined -- the time -- configurations, such as the shape of a configuration (refer to (c) of drawing 2), and a dumbbell (refer to (b) and (d) of drawing 2), -- adopting -- having -- obtaining . among these, the width which is sufficient for the most desirable configuration being a configuration shown in (b) of drawing 2 , and the dimension T in drawing gripping only the tendon which adjusts a location gap -- enough -- coming out -- it is -- more than it -- **** -- by [which it hears] carrying out, also gripping a tendon without the need of adjusting should avoid and it is usually desirable that it is about 1-3cm.

[0019] If (b) of gestalt 2 drawing 1 of operation is referred to, the tape 1 for living bodies in connection with the gestalt of this operation has the reinforcement layer 3 on the base material 2 between the 1st adhesives layer 11 and the 2nd adhesives layer 12.

[0020] If the reinforcement layer 3 is formed, elasticity will improve further.

[0021] If gestalt 3 drawing 3 of operation is referred to, the 1st adhesives layer 11 and the 2nd adhesives layer 12 will be covered with the exfoliation sheet 4, and the exfoliation sheet 4 will be exfoliated and used for the tape for living bodies of the gestalt of this operation at the time of an activity. Moreover, two extensions 5 and 6 are formed in the reinforcement layer 3.

[0022] Moreover, these two extensions 5 and 6 are covered with the exfoliation sheet 7 through the 3rd adhesives layer 13 and 14.

[0023] Furthermore, in the case of the tape for living bodies of the gestalt of this operation, the predetermined distance D1 between the 1st adhesives layer 11 and the 2nd adhesives layer 12 is

shorter than the distance D2 between two extensions.

[0024] By such configuration, when D1 is too short, dimension D1 dimension between adhesives layers can be extended even to D2 by pasting up the 1st adhesives layer 11 and the 3rd adhesives layer 13, and the 2nd adhesives layer 12 and the 4th adhesives layer 14, respectively. It also becomes possible by cutting the extension of further 5 and 6 to suitable die length to adjust to the die length of the arbitration between D1 and D2.

[0025] Below, the application approach to the body of the tape 1 for living bodies of this invention is explained, referring to drawing 4.

[0026] The tape 1 for living bodies of this invention is stuck near [one] the wrist of Forearm A, and on one place applied to Overarm B from Forearm A on both sides of Elbow E as shown in drawing 4.

[0027] The point of the tape for living bodies by the side of a wrist of pasting is sticking in the shape of U character on both sides of the extension of a digitus minimus F as shown in drawing 4.

[0028] Moreover, when applying and sticking on Overarm B from Forearm A on both sides of Elbow E, it twists to the upper part of the tendon of the front face of Overarm B through the rear-face side of Forearm A, and the rear-face side of Forearm B spirally so that the extension wire top of a digitus minimus may be crossed from the upper part of the tendon by the side of the front face of Forearm A, as shown in drawing 4.

[0029]

[Effect of the Invention] According to the tape for living bodies of this invention, a location gap of the tendon of the body can be returned to a normal location by applying the physical force, and the tape for living bodies effective the stiffness of the shoulders, a headache, menstrual pain, the arthralgia, and in order to carry out muscular pain can be offered.

[Translation done.]

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TECHNICAL FIELD

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MEANS

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is the cross-section explanatory view showing an example of the tape for living bodies in connection with the gestalt of 1 operation of this invention, and is **.

[Drawing 2] It is the flat-surface explanatory view of the tape for living bodies in connection with the gestalt of 1 operation of this invention.

[Drawing 3] It is the cross-section explanatory view showing an example of the tape for living bodies of the gestalt of other operations of this invention.

[Drawing 4] It is the explanatory view showing the condition of having stuck the tape for living bodies of this invention on the body.

[Description of Notations]

1 Tape for Living Bodies

2 Base Material

3 Reinforcement Layer

4 Seven Exfoliation sheet

5 Six Extension

11 1st Adhesives Layer

12 2nd Adhesives Layer

13 3rd Adhesives Layer

14 4th Adhesives Layer

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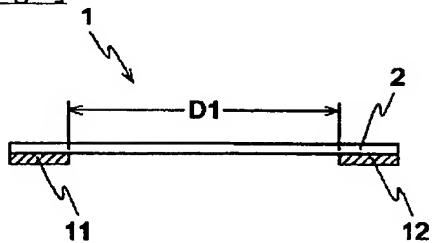
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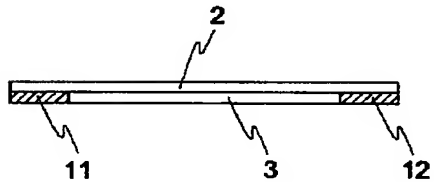
DRAWINGS

[Drawing 1]

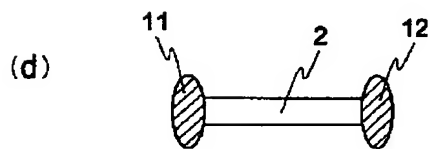
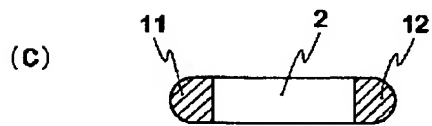
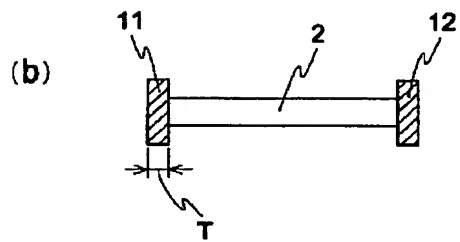
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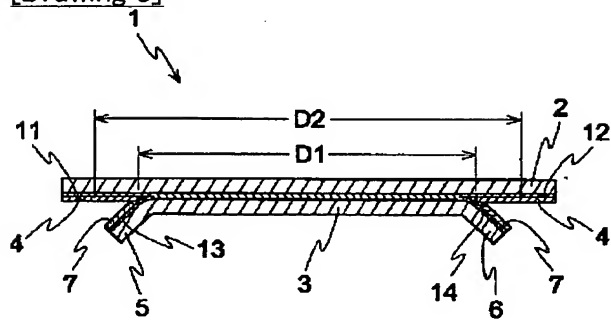
(b)



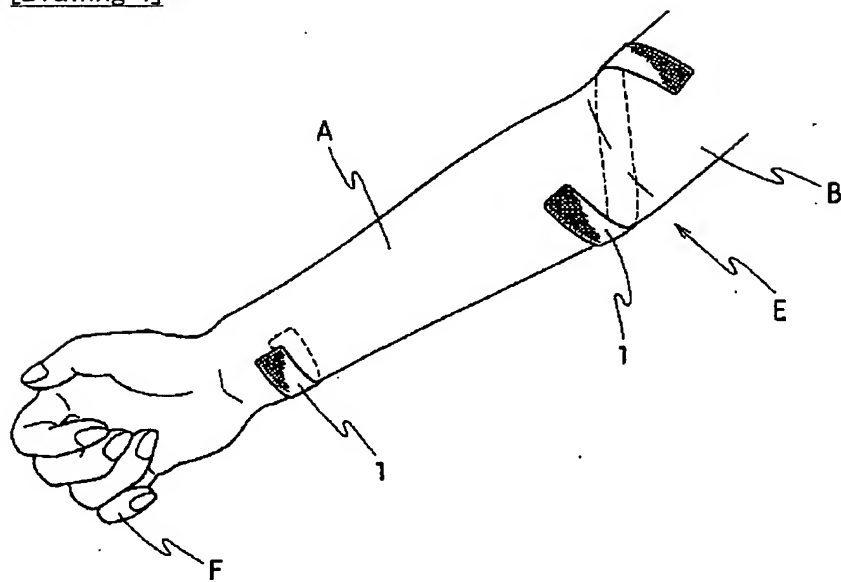
[Drawing 2]



[Drawing 3]



[Drawing 4]



[Translation done.]

(19)日本国特許庁 (J P)

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(P2001-245920A)

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(22)出願日 平成12年3月7日(2000.3.7)

(71)出願人 500103649

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Fターム(参考) 4C098 AA01 BB09 BB11 BB20 BD20
DD08 DD10 DD23 DD26

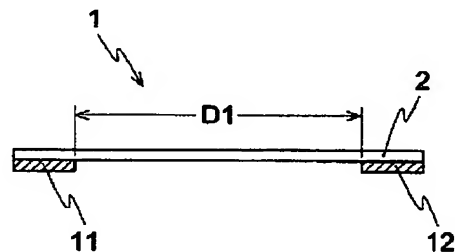
(54)【発明の名称】 生体用テープ

(57)【要約】

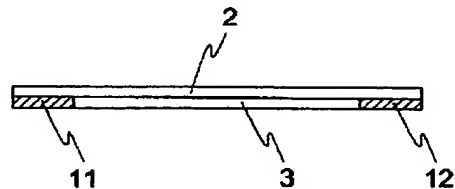
【課題】 身体の腱の位置ずれを物理的な力を加えることによって正常な位置に戻し、肩凝り、頭痛、生理痛、関節痛、筋肉痛するために有効な生体用テープを提供することである。

【解決手段】 基材の一端部分近傍に第1の接着剤層が設けられ、基材の他端部分近傍に第2の接着剤層が設けられた生体用テープであって、前記基材が、少なくとも該第1の接着剤層と第2の接着剤層とを結ぶ方向に伸縮性を有しており、前記第1の接着剤層と第2の接着剤層とのあいだが所定の距離だけ離間されてなることを特徴としている。

(a)



(b)



【特許請求の範囲】

【請求項 1】 基材の一端部分近傍に第 1 の接着剤層が設けられ、基材の他端部分近傍に第 2 の接着剤層が設けられた生体用テープであって、前記基材が、少なくとも該第 1 の接着剤層と第 2 の接着剤層とを結ぶ方向に伸縮性を有しており、前記第 1 の接着剤層と第 2 の接着剤層とのあいだが所定の距離だけ離間されてなる生体用テープ。

【請求項 2】 前記基材が帯状の形状を有してなる請求項 1 記載の生体用テープ。

【請求項 3】 前記第 1 の接着剤層および第 2 の接着剤層が剥離シートによって覆われてなる請求項 1 または 2 記載の生体用テープ。

【請求項 4】 前記第 1 の接着剤層と第 2 の接着剤層とのあいだに補強層が設けられてなる請求項 1、2 または 3 記載の生体用テープ。

【請求項 5】 前記補強層に 2 つの延長部が設けられており、該 2 つの延長部が、それぞれ第 3 および第 4 の接着剤層を介して剥離シートによって覆われており、前記第 1 の接着剤層と第 2 の接着剤層とのあいだの所定の距離と該 2 つの延長部のあいだの距離とが異なる請求項 4 記載の生体用テープ。

【発明の詳細な説明】

【0001】

【発明の属する技術分野】本発明は生体用テープに関する。さらに詳しくは、所定の距離だけ離間した 2 つの接着剤層が設けられた基材からなる生体用テープに関する。

【0002】

【従来の技術および発明が解決しようとする課題】肩こり、筋肉痛の治療のために、伸縮性を備えた基材の一方の面に血行促進剤が混入された粘着剤が塗布され、この粘着剤の上に複数個の磁石および／またはセラミックの粒子がランダムに配列された膏薬が従来より知られている。

【0003】この場合は、粘着剤に混入された血行促進剤の薬効と、磁石に生じる磁力線の効果とに依存するものであり、腱の片寄りを物理的に矯正しうるものではない。

【0004】また、スポーツまたは肉体的労働による機能障害時の保護のために使用するテーピング用テープも従来より知られている。

【0005】テーピング用テープの場合は、該テープを腕や脚に巻き付けることによって、生じる締め付け力により、関節部や筋肉の動作を規制して関節や筋肉の機能補助、または関節や筋肉の機能障害時の保護をするものであり、締め付け力という物理的な作用効果を奏するが、腱の正常な位置からの位置ずれを矯正するに必要な引張り力は得られない。

【0006】本発明者は、長年にわたる接骨師としての

治療経験から、肩凝り、頭痛、生理痛、関節痛、筋肉痛が身体の筋肉の腱の位置ずれに起因していることをつきとめた。

【0007】そこで、本発明は、かかる身体の腱の位置ずれを物理的な力を加えることによって正常な位置に戻し、肩凝り、頭痛、生理痛、関節痛、筋肉痛するために有効な生体用テープを提供することを目的としている。

【0008】

【課題を解決するための手段】本発明の生体用テープは、基材の一端部分近傍に第 1 の接着剤層が設けられ、基材の他端部分近傍に第 2 の接着剤層が設けられた生体用テープであって、前記基材が、少なくとも該第 1 の接着剤層と第 2 の接着剤層とを結ぶ方向に伸縮性を有しており、前記第 1 の接着剤層と第 2 の接着剤層とのあいだが所定の距離だけ離間されてなることを特徴としている。

【0009】また、前記基材が帯状の形状を有してなることが好ましい。

【0010】また、使用前には前記第 1 の接着剤層および第 2 の接着剤層が剥離シートによって覆われてなることが好ましい。

【0011】2 つの接着剤層のあいだの長さは、患者の個体差により調整する必要がある。このため、前記基材の接着剤層のあいだに補強層を設け、更にこの補強層に 2 つの延長部が設けられており、該 2 つの延長部が、それぞれ第 3 および第 4 の接着剤層を介して剥離シートによって覆われており、前記第 1 の接着剤層と第 2 の接着剤層とのあいだの所定の距離と該 2 つの延長部のあいだの距離とが異なることが実用上好ましい。

【0012】

【発明の実施の形態】添付図面を参照しながら本発明の生体用テープを詳細に説明する。

【0013】図 1 は本発明の一実施の形態にかかわる生体用テープの一例を示す断面説明図、図 2 は本発明の一実施の形態にかかわる生体用テープの平面説明図、図 3 は本発明の他の実施の形態の生体用テープの一例を示す断面説明図、図 4 は本発明の生体用テープを身体に貼付した状態を示す説明図である。

【0014】実施の形態 1

図 1 の (a) を参照すると、本実施の形態の生体用テープ 1 は、基材 2 と、基材 2 の両端に設けられた第 1 の接着剤層 11 および第 2 の接着剤層 12 とから構成される。なお、基材 2 の両端面と、第 1 および第 2 の接着剤層 11、12 の端面とは面一にすることもできる、また第 1 および第 2 の接着剤層 11、12 の端面が、基材 2 の両端面より基材 2 の中央の方にいくぶんずらすようにすることもできる。

【0015】本実施の形態の生体用テープ 1 の場合、基材 2 は、第 1 の接着剤層 11 と第 2 の接着剤層 12 とを結ぶ方向、すなわち図示された例では、生体用テープ 1

の長手方向に伸縮性を有している。

【0016】生体用テープ1の基材2の材料としては、たとえばナイロン、ポリエステル、アセテート、ネル、綿、絹などからなる織布または不織布のほか高弾性スパandex（商品名）などが採用され得るが、特定のものに限定されることはなく、適当な伸縮力を生じるものであればどのようなものでも採用され得る。

【0017】また、本実施の形態の生体用テープ1の場合、基材2は帯状の形状を有している（図2の（a）参照）。なお、基材2の大きさは、接着面間の距離D1により適宜選択される。また形状は、接着強度と接着面間の距離および伸縮力により、使用目的に合致するように調整されたものを選択しうる。

【0018】生体用テープ1の基材2の形状としては、このほか、たとえば矩形状の形状と半円状の形状とを組み合わせたごとき形状（図2の（c）参照）、亜鈴状（図2の（b）および（d）参照）などの形状が採用され得る。このうちもっとも好ましい形状は、図2の（b）に示された形状であり、図中の寸法Tは、位置ずれを調整する腱のみをグリップするに足る巾で充分であり、それ以上におおきくすることにより調整する必要のない腱をもグリップしてしまうことは避けるべきであり、通常、約1〜3cmであることが好ましい。

【0019】実施の形態2

図1の（b）を参照すると、本実施の形態にかかわる生体用テープ1は、第1の接着剤層11と第2の接着剤層12とのあいだの基材2上に補強層3を有している。

【0020】補強層3が設けられていると、さらに伸縮性が向上する。

【0021】実施の形態3

図3を参照すると、本実施の形態の生体用テープは、第1の接着剤層11および第2の接着剤層12が剥離シート4によって覆われており、使用時には剥離シート4を剥離して使用する。また、補強層3には、2つの延長部5、6が設けられている。

【0022】また、これら2つの延長部5、6は、第3の接着剤層13および14を介して剥離シート7によって覆われている。

【0023】さらに、本実施の形態の生体用テープの場合、第1の接着剤層11と第2の接着剤層12とのあいだの所定の距離D1は、2つの延長部のあいだの距離D2より短い。

【0024】このような構成により、もしD1が短すぎ

る場合、第1の接着剤層11および第3の接着剤層13と、第2の接着剤層12および第4の接着剤層14とをそれぞれ接着することにより、接着剤層間の寸法D1寸法をD2にまで延ばすことができる。更に5、6の延長部を適当な長さに切断することにより、D1からD2のあいだの任意の長さに調整することも可能となる。

【0025】つぎに、図4を参照しながら、本発明の生体用テープ1の身体への適用方法について説明する。

【0026】本発明の生体用テープ1は、図4に示されているように、前腕Aの手首付近1ヵ所と、肘Eを挟んで前腕Aから上腕Bにかけての1ヵ所に貼付される。

【0027】手首側への生体用テープの貼付のポイントは、図4に示されているように、小指Fの延長部を挟んでU字状に貼り付けることである。

【0028】また、肘Eを挟んで前腕Aから上腕Bにかけて貼付する場合、図4に示されているように、前腕Aの前面側の腱の上方の部位から小指の延長線上を交差するように螺旋状に前腕Aの後面側と、前腕Bの後面側とを経て上腕Bの前面の腱の上方の部位まで巻きつける。

【0029】

【発明の効果】本発明の生体用テープによれば、身体の腱の位置ずれを物理的な力を加えることによって正常な位置に戻し、肩凝り、頭痛、生理痛、関節痛、筋肉痛するために有効な生体用テープを提供することができる。

【図面の簡単な説明】

【図1】本発明の一実施の形態にかかわる生体用テープの一例を示す断面説明図である。

【図2】本発明の一実施の形態にかかわる生体用テープの平面説明図である。

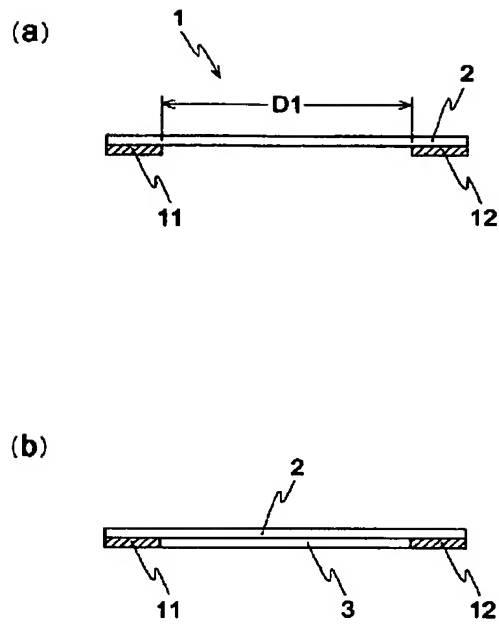
【図3】本発明の他の実施の形態の生体用テープの一例を示す断面説明図である。

【図4】本発明の生体用テープを身体に貼付した状態を示す説明図である。

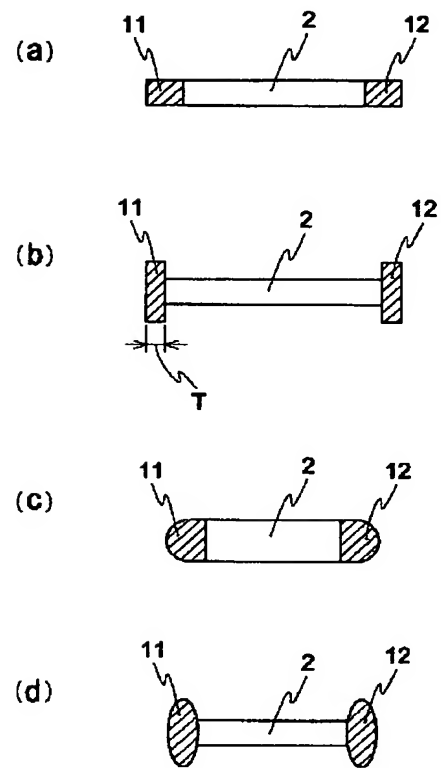
【符号の説明】

- 1 生体用テープ
- 2 基材
- 3 補強層
- 4、7 剥離シート
- 5、6 延長部
- 11 第1の接着剤層
- 12 第2の接着剤層
- 13 第3の接着剤層
- 14 第4の接着剤層

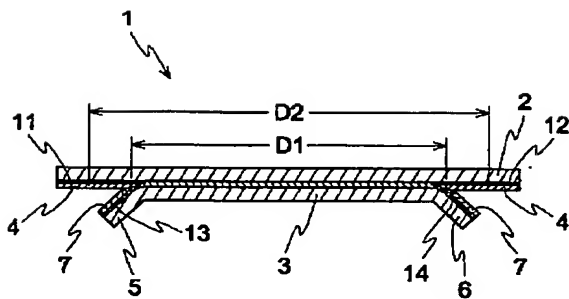
【図 1】



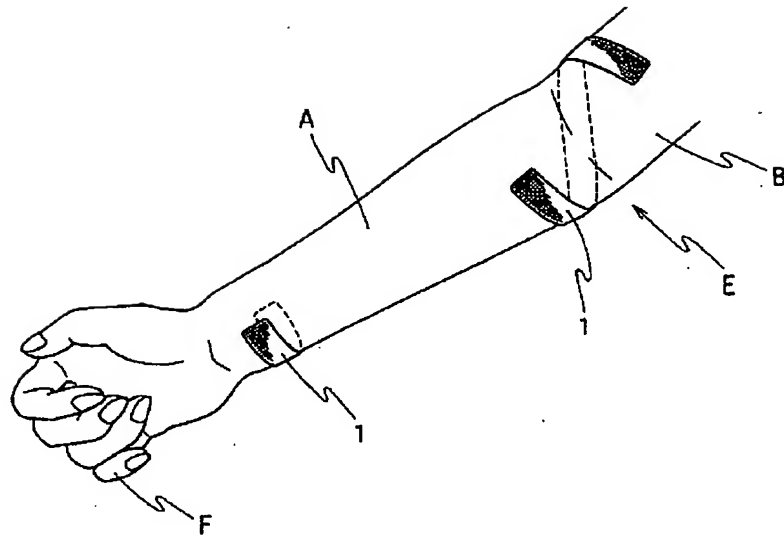
【図 2】



【図 3】



【図4】



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